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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/682,519	09/13/2001	Yu Wang	040489-0177	2614
22428	7590 01/25/2006		EXAMINER	
FOLEY AND LARDNER LLP			DONOVAN, LINCOLN D	
SUITE 500 3000 K STR	EET NW		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007			2832	
			DATE MAILED: 01/25/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary The MAILING DATE of this communication appears on the Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET WHICHEVER IS LONGER, FROM THE MAILING DATE OF The Extensions of time may be available under the provisions of 37 CFR 1.136(a). In not after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and Failure to reply within the set or extended period for reply will, by statute, cause the at Any reply received by the Office later than three months after the mailing date of this cearned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is 3) Since this application is in condition for allowance except closed in accordance with the practice under Ex parte Computed to the provided of the provided in accordance with the practice under Ex parte Computed to the provided in the application of Claims 4) Claim(s) 1-22,39 and 40 is/are pending in the application and Of the above claim(s) is/are withdrawn from computed to the provided in the provi	Donovan TO EXPIRE 3 MONTH(THIS COMMUNICATION EVENT, however, may a reply be time will expire SIX (6) MONTHS from application to become ABANDONE communication, even if timely filed	(S) OR THIRTY (30) D. N. nely filed the mailing date of this communic (35 U.S.C. § 133).	AYS,
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7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election Application Papers	onsideration.		
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 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or the accepted o	be held in abeyance. See ired if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.	` '
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority u a) All b) Some * c) None of: 1. Certified copies of the priority documents have be 2. Certified copies of the priority documents have be 3. Copies of the certified copies of the priority documents have be application from the International Bureau (PCT Reference) * See the attached detailed Office action for a list of the certified copies.	en received. en received in Application nents have been receive alle 17.2(a)).	on No ed in this National Stag	je
Attachment(s) 1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date			

Application/Control Number: 09/682,519

Art Unit: 2832

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103[a] which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 7-11, 14, 19-21 and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over van Oort [US 5,923,235] in view of Tang et al. [US 5,964,579]. van Oort discloses an open magnet assembly with a floor mount comprising:

- a first assembly mounted about a first longitudinally-extending and generally-vertically-aligned axis including:
 - at least one superconducting main coil [26] positioned around the axis; and
 - a vacuum enclosure [24] enclosing the at least one superconductive main coil;
- a second assembly mounted about a second longitudinally-extending and generally-vertically-aligned axis coaxially aligned with the first axis and spaced longitudinally apart from and disposed below the first assembly, the second assembly including:
 - at least one superconducting main coil [30] positioned around the axis; and
- a vacuum enclosure [28] enclosing the at least one superconductive main coil; and

- at least one support beam [32] external to the first and second vacuum enclosures having a first end attached to the first assembly and a second end attached to the second assembly.

van Oort disclose everything claimed except for an isolating support apparatus supporting both assemblies from a floor.

Tang et al. discloses an vibration isolation system [figure 1] with a plurality of isolators [30] for a piece of machinery [10].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a vibration isolation system for a support structure of van Oort, as suggested by Tang et al., for the purpose of reducing vibration of the open magnet assembly.

Tang et al. disclose the vibration isolation system mounted on a floor assembly [24] supporting a support member [30] supporting the machinery away from the floor structure [figure 1].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the isolation support mounting design of Tang et al. in van Oort, as modified, for the purpose of isolating the device from the floor structure.

The specific footprint of the isolation system and its use as a retrofit would have been an obvious design consideration for the purpose of reducing space usage and providing isolation for existing equipment.

Application/Control Number: 09/682,519

Art Unit: 2832

Claims 2-4, 12-13, I 5-17 and 22 are rejected under 35 U.S.C. 103[a] as being unpatentable over van Oort, as modified, as applied to claims 1, 7-11, 14 above, and further in view of Ohsaki [US 6,202,492].

van Oort, as modified, discloses the instant claimed invention except for the isolators being adjustable and actively pneumatically controlled.

Ohsaki discloses a surface [6] being supported by adjustable actively controlled pneumatic isolators [4a-d, column 5, lines 1-12].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to the isolator design of Ohsaki for the isolators of van Oort, as modified, for the purpose of accommodating variations in the operating environment.

The specific frequencies, Q-factors, bandwidth, etc. of the control would have been obvious design considerations based on the specific application and environment of use.

Claims 5-6 and 18 are rejected under 35 U.S.C. 103[a] as being unpatentable over van Oort., as modified, as applied to claims 1 and 14 above, and further in view of Braun [US 4,781,363].

van Oort, as modified, discloses the instant claimed invention except for the use of balance weights on the isolators.

Braun discloses the use of balance weights [9] mounted on an isolator.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use balance weights on the isolators of van Oort, as modified, for the purpose of accommodating unexpected balance shifts.

Art Unit: 2832

It would have been obvious to have the amount of weight applied be adjustable for the purpose of accommodating varying operating environments.

Response to Arguments

Applicant's arguments with respect to claims 1-22 and 39-40 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lincoln Donovan whose telephone number is 571-272-1988. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).